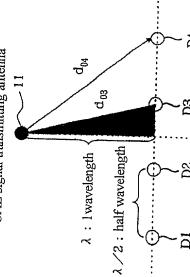


Fig. 1

CAL signal transmitting antenna



CAL signal transmitting antenna , Physical - Receiving antenna #4 distance  $d_{04}^2 = \lambda^2 + (\lambda/2 + \lambda/4)^2$ 

CAL signal tranmitting antenna . Physical - Receiving antenna #3 · distance  ${\bf d}_{03}^2 = \lambda^2 + (\lambda/4)^2$ 

Phase variation arising over physical distance:

$$\frac{d_{0x}}{\lambda r r} \cdot 2 \pi [rad]$$

· Gain variation arising over physical distance:

$$10\log 10 \left( \frac{4 \pi d_{0x}}{\lambda rx} \right) [dB]$$

where,  $\lambda$ : Wavelength of transmit/receive intermediate frequency

Receiving Receiving antenna antenna # 4

Receiving antenna # 2

Receiving antenna # 1

λ rx: Receive frequency wavelength

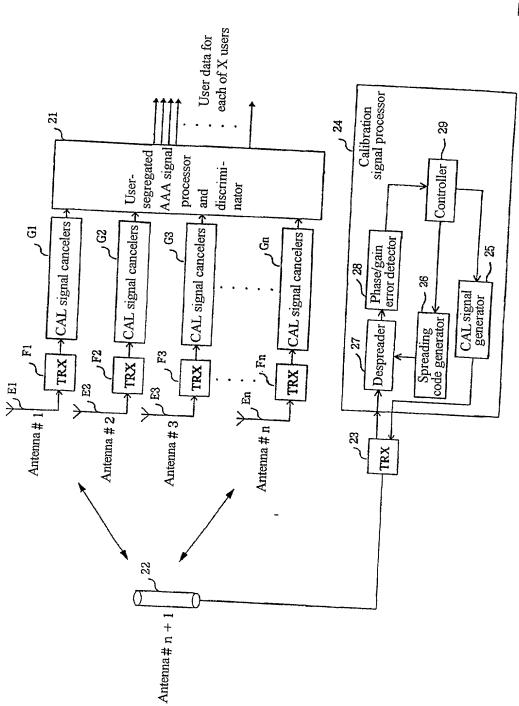


Fig. 3

C1

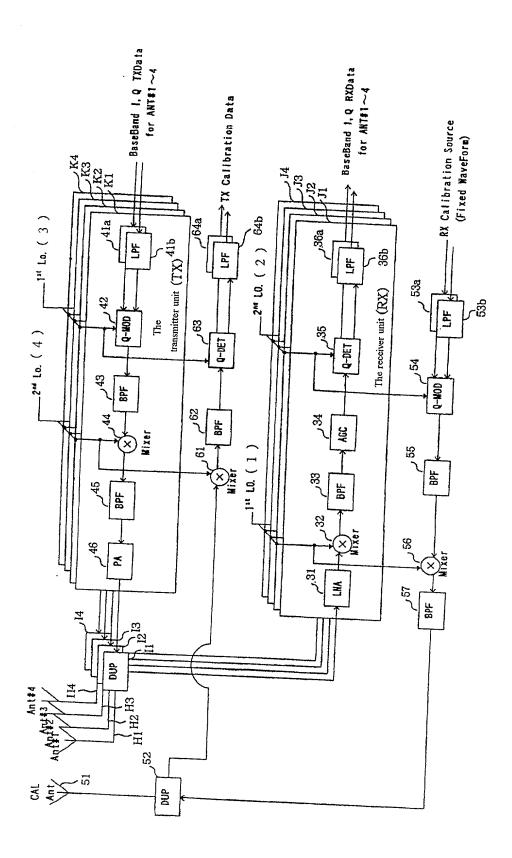


Fig. 4

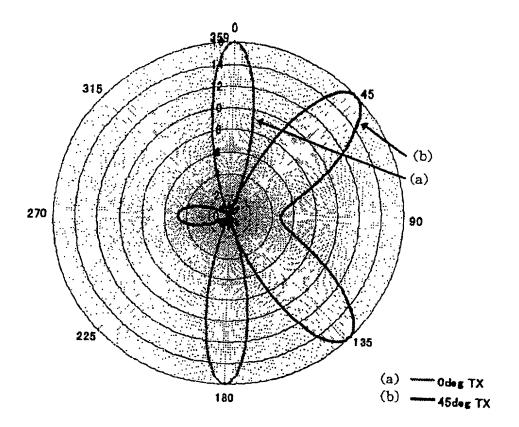


Fig. 5

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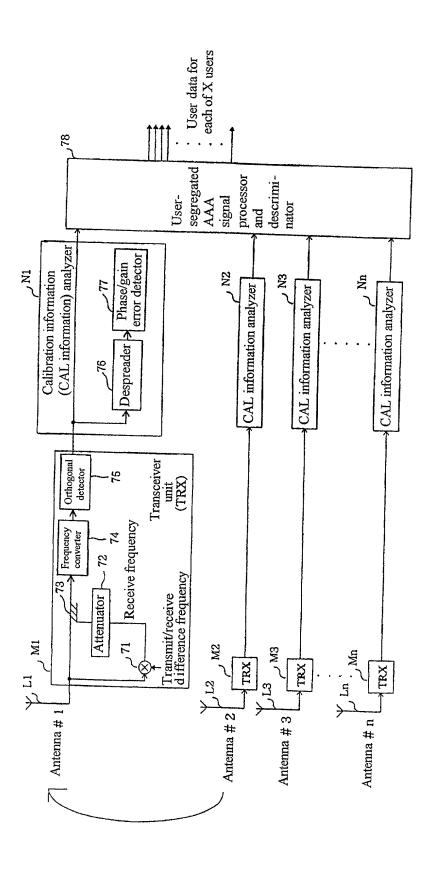


Fig. 6